

# Human KCTD15 antibody

Catalog Number: ATGA0121

## PRODUCT INFORMATION

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**Catalog number**

ATGA0121

**Clone No.**

AT2B11

**Product type**

Monoclonal Antibody

**UnitProt No.**

Q96SI1

**NCBI Accession No.**

NP\_076981

**Alternative Names**

BTB/POZ domain-containing protein KCTD15, MGC25497, MGC2628

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human KCTD15(1-159aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF, FACS

**Usage**

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

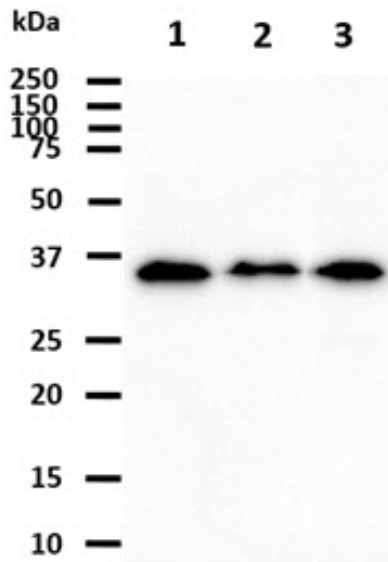
KCTD15 (Potassium channel tetramerisation domain containing 15, also known as BTB/POZ domain-containing protein KCTD15) is protein that in humans is encoded by the KCTD15 gene. KCTD15 is expressed at high level in brain and hypothalamus. The potassium channel KCTD15 was identified as a genetic loci associated with higher than normal body mass index (BMI) in humans along with genes such as GNPDA2, MTCH2, FTO, and TMEM18. Single nucleotide polymorphisms (SNPs) in non-diabetic and diabetic patients showed that FTO was most strongly associated with obesity while MTCH2 and GNPDA2 were still significantly associated with higher than normal BMI levels.

### General References

- Elks CE, et al. (2010) PLoS Med. 7(5): e1000284.
- Strausberg RL, et al. (2002) Proc. Natl. Acad. Sci. U.S.A, 99(26): 16899-903.
- Willer CJ, et al. (2010) Nat. Genet, 41(1): 24-34.

## DATA

### Western blot analysis (WB)



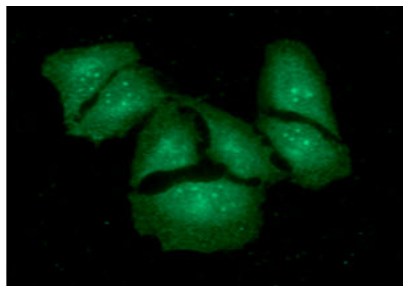
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KCTD15 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1 : HeLa cell lysate
- Lane 2 : NIH/3T3 cell lysate
- Lane 3 : K562 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

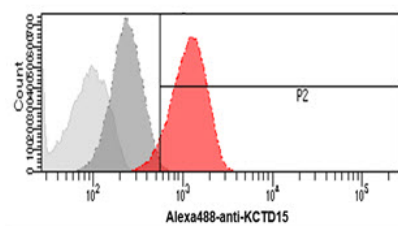
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ICC/IF analysis of KCTD15 in HeLa cells. The cell was stained with ATGA0121 (1:100). The secondary antibody (green) was used Alexa Fluor 488.

### Flow cytometry (FACS)



Flow cytometry analysis of KCTD15 in HeLa cells. The cell was stained with ATGA0121 at 2-5ug for  $1 \times 10^6$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).